



**Brüggemann**  
Group





A wide range of Industrial Chemicals, Polymer Additives and Alcohols for many various applications are the three main pillars on which the long-lasting success of the BrüggemannGroup is based.

The worldwide distribution network of our company is managed from our Headquarters in Heilbronn. Subsidiaries in the USA and in Hong Kong emphasize the international character of our company.

Own R&D activities and the above-average share of apprentices prove the clear commitment of our medium-sized company to a sustainable future continuity of business, as well as advanced quality and eco-management and the considerable investments in know-how and facilities.

The BrüggemannGroup comprises of:

- Brüggemann**Chemical** L. Brüggemann KG, Heilbronn, Germany
- Brüggemann**Chemical** U.S., Ltd., Philadelphia, USA
- Brüggemann**Chemical** Asia Ltd., Hong Kong
- Brüggemann**Alcohol** Heilbronn GmbH, Heilbronn, Germany

Through flexibility and quality awareness this agile group of companies has acquired a first-grade worldwide reputation and continues strengthening this position systematically, also by launching new products.



## For more than 140 years, the name Brüggemann stands for the highest quality and customer orientation



Since 1868 customers in more than 50 countries have put their trust in the reliability, rapid response and innovative product solutions of our company which has approximately 170 employees at its Headquarters in Heilbronn. We not only produce but also perform extensive Research and Development. Brüggemann also provides **chemical and environmental consultancy facilities** especially for small and medium enterprises (SME) in order to meet the increasing high level of demand in these fields.

Brüggemann**Chemical** develops, produces and distributes

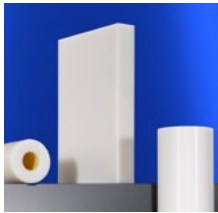
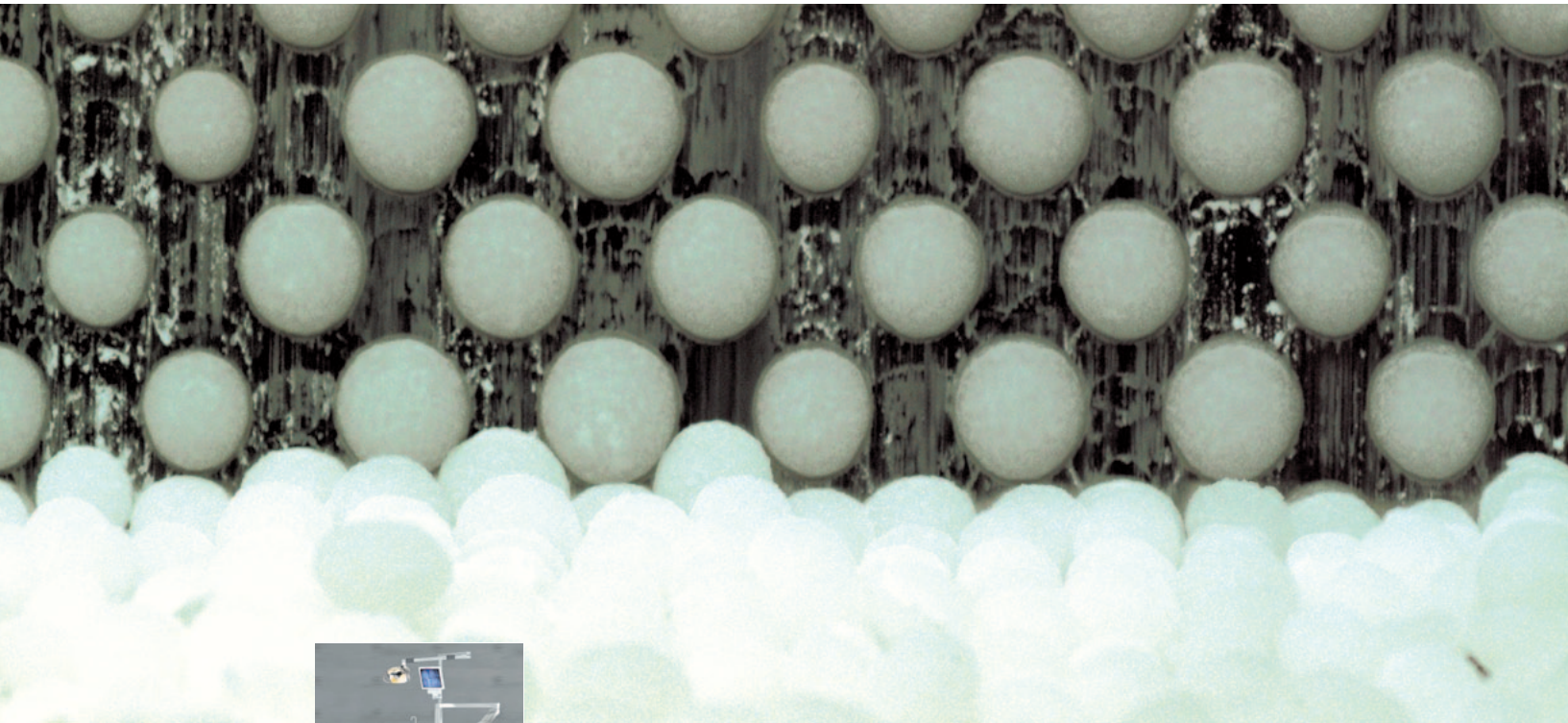
- **Sulphur based Reducing Agents**
- **Zinc Derivatives**
- **Polymer Additives for Engineering Thermoplastics**

Our products are used for the production of a wide scope of commodity items and articles of daily use such as paper, car tyres, textiles, cosmetics and polymers.

Brüggemann actively participates in the Responsible Care Program of the German Chemical Industry Association. Quality Management Systems and eco-management systems of Brüggemann are certified in accordance with DIN EN ISO 9001 and 14001 standards.



# POLYMER ADDITIVES



## **BRÜGGOLEN® High Performance Additives for Engineering Thermoplastics**

BrüggemannChemical develops, produces and sells high-performance additives for Engineering Thermoplastics with a focus on Polyamides and Polyesters. The range of applications covers compounds for injection molding and extrusion as well as fibers, monofilaments and packaging films. A longstanding experience in the polymer industry, the technical know how of specialized experts as well as close partnership with customers, ensure that BrüggemannChemical's polymer additives enhance the value of our customer's products to meet high technical requirements.

The product portfolio comprises of:

- Heat and Light Stabilizers
- High Performance based on Copper Antioxidants for Polyamides
- Very efficient Processing Agents, e.g. for Color Stabilization
- Most effective Nucleating Agent for Polyamides
- Processing Auxiliaries, e.g. Release Agents
- Chain Extending and Chain Breaking Agents
- Additive Packages („One Packs“), e.g. for Recycling

## **AP-NYLON® Additives for Cast Nylon and NYRIM®**

BrüggemannChemical is the leading supplier of raw materials and additives for nylon casting. The **AP-NYLON®** product portfolio comprises a series of catalysts and activators, impact modifiers, heat stabilizers and processing auxiliaries. Complementary, BrüggemannChemical provides the monomer AP-Caprolactam.

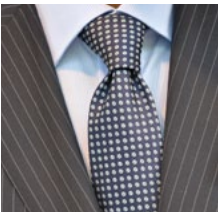
**NYRIM®** stands for specific nylon block copolymers which are processed via Reaction Injection Moulding (RIM) and exhibit inherent excellent low temperature impact resistance (down to -30°C).

BrüggemannChemical cooperates closely with customers providing direct technical support with a team of experienced experts and a sophisticated technical and R&D center. Product innovations and product improvements are constantly targeted to market demands.

## **Toll Production**

BrüggemannChemical offers advanced production plants for chemical synthesis, mixing, grinding, pelletizing and drying. A variety of products are produced in constant quality according to customer requirements.

# INDUSTRIAL CHEMICALS



## Producer and application specialist of Reducing Agents and Highly Active Zinc Derivatives

BrüggemannChemical is the only Western producer of Sodium Hydroxymethanesulfoxylate (SFS). As a leading Producer and Research Company in the area of sulphur based reducing agents we have a wide range of sulphinic acid derivatives (**Bruggolite®** and **Blancolen®**).

Our latest processes and methods have improved the performance of our zinc derivatives and have opened up new application areas. Our active zinc oxides stand for optimized customer applications. We are committed to providing our customers with user friendly and innovative products. Diverse product forms i.e. powder, pellets or aqueous concentrates, combined with a high variety of packaging forms provide our customers with the opportunity to optimize their processes. High quality standards and reactivity allow an efficient dosing and thus a competitive advantage.

## Second Generation Sulphinic Acid Derivatives

Proof of our innovative strength is for example the first sulphinic acid worldwide since approximately 100 years, namely **Bruggolite® FF6 M**.

**Bruggolite® FF6 M** is completely free of formaldehyde, has a higher reactivity and does not cause yellowing. When smaller quantities are used better results are achieved compared to traditional reducing agents.

## Active Zinc Derivatives – Our specialty

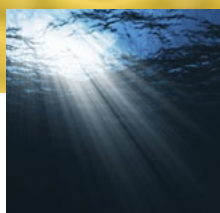
Brüggemann is specialized in the production of active zinc oxide whose very high specific surface is generated and made available by special procedures.

This product innovation enables us to generate ideal formulations for the numerous areas of application. In dialog with our customers we continuously strive for improvement. Our product portfolio also includes direct and indirect zinc oxides. We are therefore able to support every customer application.

## Zinc Carbonate – A high potential product

Brüggemann has many years of experience in the production of zinc carbonates. Many different applications in the chemical or pharmaceutical industry and cosmetics require maximum quality and performance. This consistently poses new challenges for us. Here too applies our motto: "We develop customised solutions together with our customers."

# BASE CHEMICALS

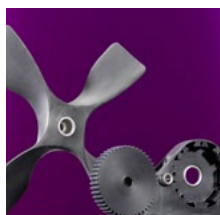


The Sales and Marketing of our high volume products Sodium Hydrosulfite and AP-Caprolactam is managed by the Base Chemicals Division.



**Sodium Hydrosulfite** is a reducing agent used in a wide range of applications.

- Printing and Dyeing in the Textile and Leather industries.
- Bleaching of Minerals and Aluminium Oxides.
- Effluent Treatment e.g. in the Galvanization Industry.
- Paper and Pulp industries for the bleaching of wood pulp and recycled paper.



**AP-Caprolactam** is used primarily in the production of Cast Nylon. However, in addition it is used in a wide range of smaller but specific applications as an Additive. For example, in the Adhesive and Melamine Industries. Due to its lower water content and associated improved reactivity and reduced tendency to agglomerate, AP-Caprolactam offers significant advantages in dosing accuracy and handling.

**Technical Customer Support** is available to all customers of Brüggemann **Chemical**.

For AP-Caprolactam we offer Application Technology support both in the laboratory (small scale simulations) and on location with the customer for Casting and RIM technologies.

For Sodium Hydrosulfite standard laboratory testing is offered (e.g. Bleaching tests, degree of whiteness etc.) supporting the Paper, Pulp and Mineral Industries. Our Expert Teams offer Problem Analysis and Advisory Services, both on and off location acting as a sound strong Support Partner to our clients.

# ALCOHOL

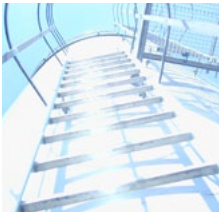


## Brüggemann **Alcohol** Heilbronn GmbH

Since 1868, the production and commercialisation of ethanol ( $C_2H_5OH$ ) belongs to our core competences. Be it standard premium qualities, niche or tailor-made products – we supply ethanol in various concentrations made from different raw materials for all applications:



- Ethanol for Beverages
- Food Alcohol
- Industrial and Technical Alcohols
- Alcohols for Pharmaceutical and Cosmetic applications
- **Brenercol**® – Ethanol for Energy Production
- Special Qualities
- Special blends according to customer requirements / customers' formulations
- Agricultural and Synthetic Alcohols
- KBA/NOP Standards (Ethanol regarding controlled organic production)



We offer denatured products in any desired form. As well as in-depth support concerning questions about documentation and excise duty.

Our aim is to continually improve our performance standard in order to shape the ethanol market even more significantly in the future. We further aim to develop alternative ethanol grades with a high customer benefit and to simplify procedures.

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